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CLAIMS

1. A dietary supplement comprising colostrinin in combination with lactoferrin.
- 5 2. A dietary supplement according to claim 1, further comprising selenium.
3. A dietary supplement according to claim 1, wherein the selenium is in the form of a physiologically acceptable selenoprotein.
- 10 4. A dietary supplement according to claim 1, further comprising at least one cytokine selected from interferon  $\alpha$ , interferon  $\gamma$ , interleukin 1- $\alpha$ , interleukin 1-3, interleukin 6, 8, 10, 12, 16, tissue necrosis factor  $\alpha$ , G-CSF, M-CSF, TGF $\alpha$  and TGF $\beta$ .
- 15 5. A dietary supplement comprising colostrinin in combination with selenium.
6. A dietary supplement comprising colostrinin in combination with at least one cytokine selected from interferon  $\alpha$ , interferon  $\gamma$ , interleukin 1- $\alpha$ , interleukin 1-3, interleukin 6, 8, 10, 12, 16, tissue necrosis factor  $\alpha$ , G-CSF, M-CSF, TGF $\alpha$  and
- 20 TGF $\beta$ .
7. A baby food formula comprising a dietary supplement according to any preceding claim.
- 25 8. The use of dietary supplement according to any preceding claim in a baby food formula.
9. A tablet, lozenge or other solid oral dosage form comprising 12.5 micrograms to 200 micrograms colostrinin, 10 micrograms to 100 milligrams lactoferrin, and 2.5 to 100
- 30 micrograms seleno-cysteine in combination with a physiologically acceptable carrier.

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10. The use of colostrinin in combination with lactoferrin in the manufacture of a medicament for improving the immune system of mammals.

11. The use of colostrinin in combination with selenium in the manufacture of a medicament for improving the immune system of mammals.

12. The use of colostrinin in combination with at least one cytokine selected from interferon  $\alpha$ , interferon  $\gamma$ , interleukin 1- $\alpha$ , interleukin 1-3, interleukin 6, 8, 10, 12, 16, tissue necrosis factor  $\alpha$ , G-CSF, M-CSF, TGF $\alpha$  and TGF $\beta$  in the manufacture of a medicament for improving the immune system of mammals.

13. A method of stimulating the immune system of a mammal, comprising administering a dietary supplement according to any one of claims 1 to 6 in unit dosage form.

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14. A method according to claim 13, wherein the unit dosage form comprises 12.5 micrograms to 200 micrograms colostrinin, 10 micrograms to 100 milligrams lactoferrin, and 2.5 to 100 micrograms seleno-cysteine in combination with a physiologically acceptable carrier.

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15. A method according to claim 13, or 14, wherein one unit dose of the dietary supplement is administered each day for a first period of not more than three weeks, then no dosage is administered for a subsequent period of up to three weeks.

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